FIG. 1

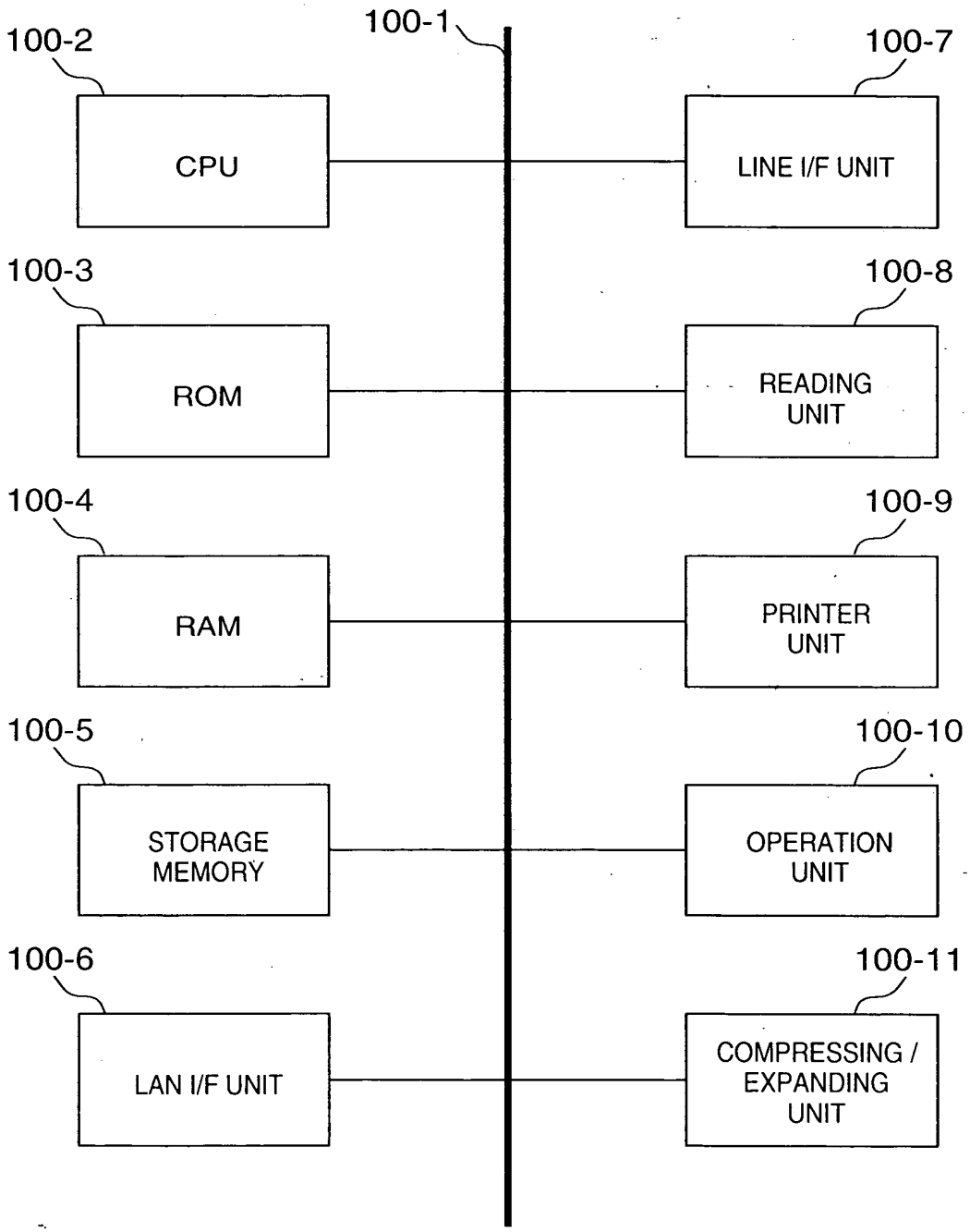
100-1
100-2
CPU
100-3
ROM
100-4
RAM
100-5
STORAGE MEMORY
100-6
LAN I/F UNIT
100-7
LINE I/F UNIT
100-8
READING UNIT
100-9
PRINTER UNIT
100-10
OPERATION UNIT
100-11
COMPRESSING / EXPANDING UNIT

FIG. 2

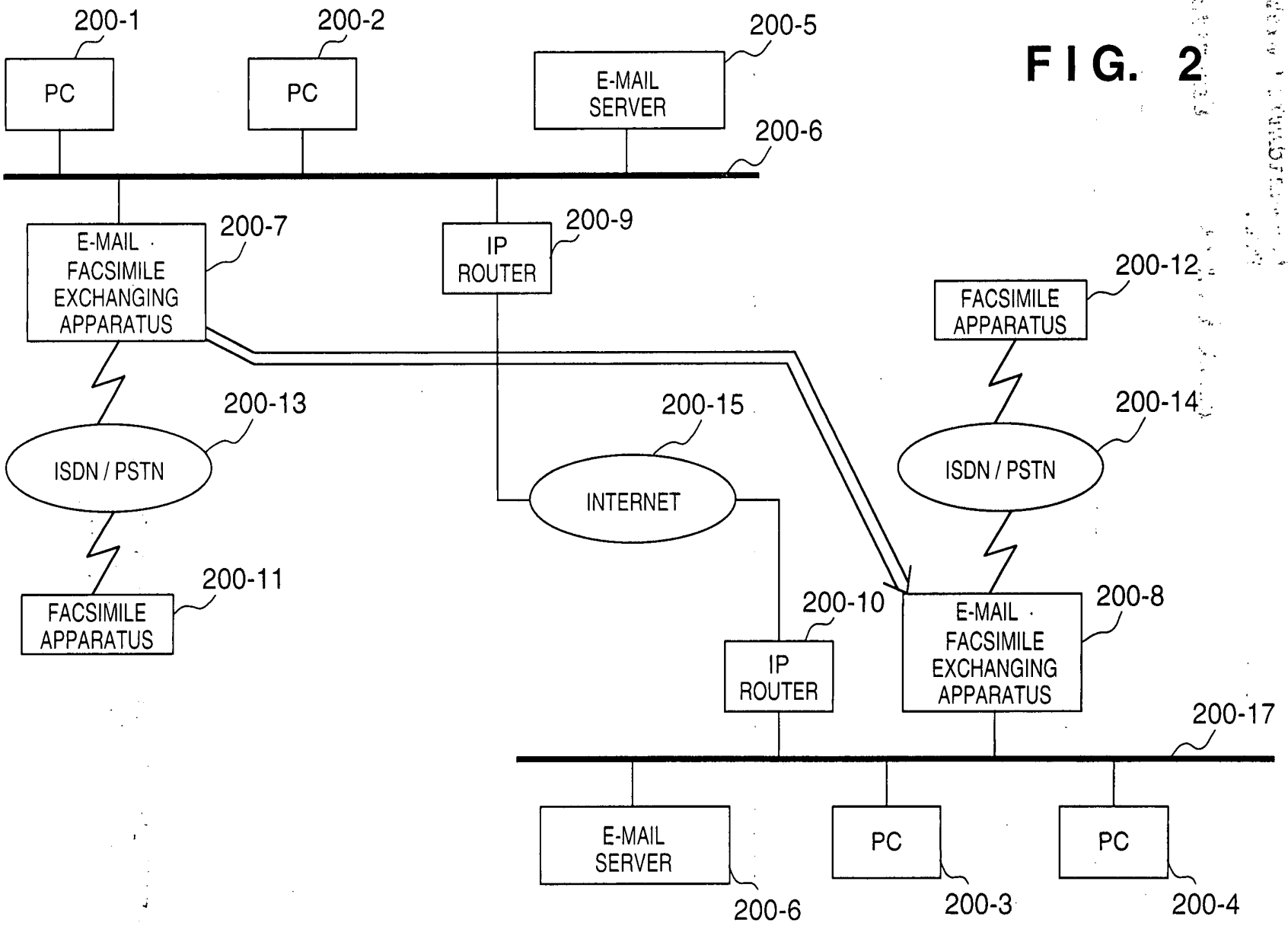
200-1
PC
200-2
PC
200-5
E-MAIL SERVER
200-6
E-MAIL FACSIMILE EXCHANGING APPARATUS
200-7
IP ROUTER
200-9
FACSIMILE APPARATUS
200-12
ISDN / PSTN
200-13
INTERNET
200-15
ISDN / PSTN
200-14
FACSIMILE APPARATUS
200-11
IP ROUTER
200-10
E-MAIL FACSIMILE EXCHANGING APPARATUS
200-8
200-17
E-MAIL SERVER
200-6
PC
200-3
PC
200-4

FIG. 3

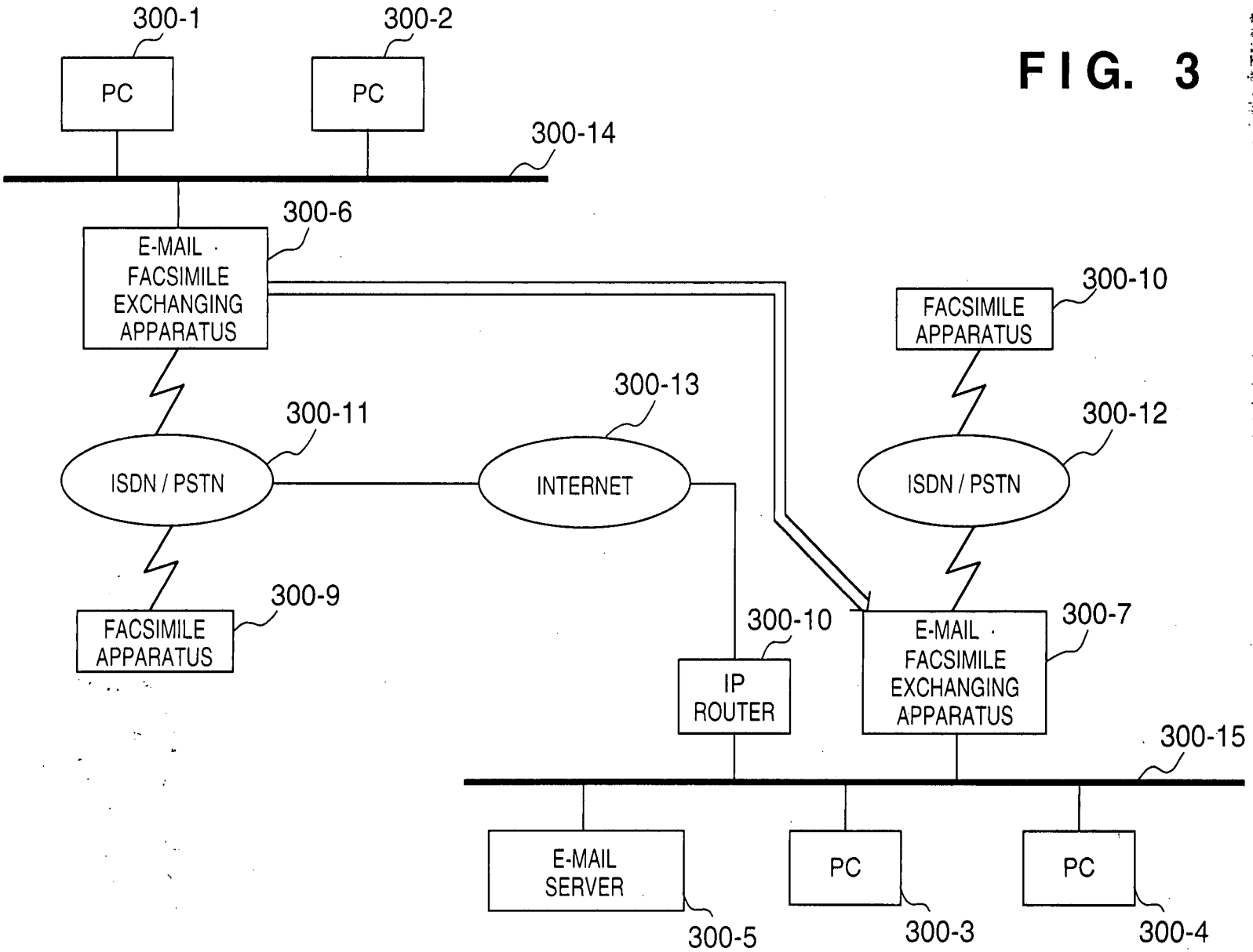
300-1
300-2
PC
PC
300-14
300-6
E-MAIL · FACSIMILE EXCHANGING APPARATUS
300-10
FACSIMILE APPARATUS
300-13
300-11
300-12
ISDN / PSTN
INTERNET
ISDN / PSTN
300-9
FACSIMILE APPARATUS
300-10
300-7
IP ROUTER
E-MAIL · FACSIMILE EXCHANGING APPARATUS
300-15
E-MAIL SERVER
PC
PC
300-5
300-3
300-4

FIG. 4

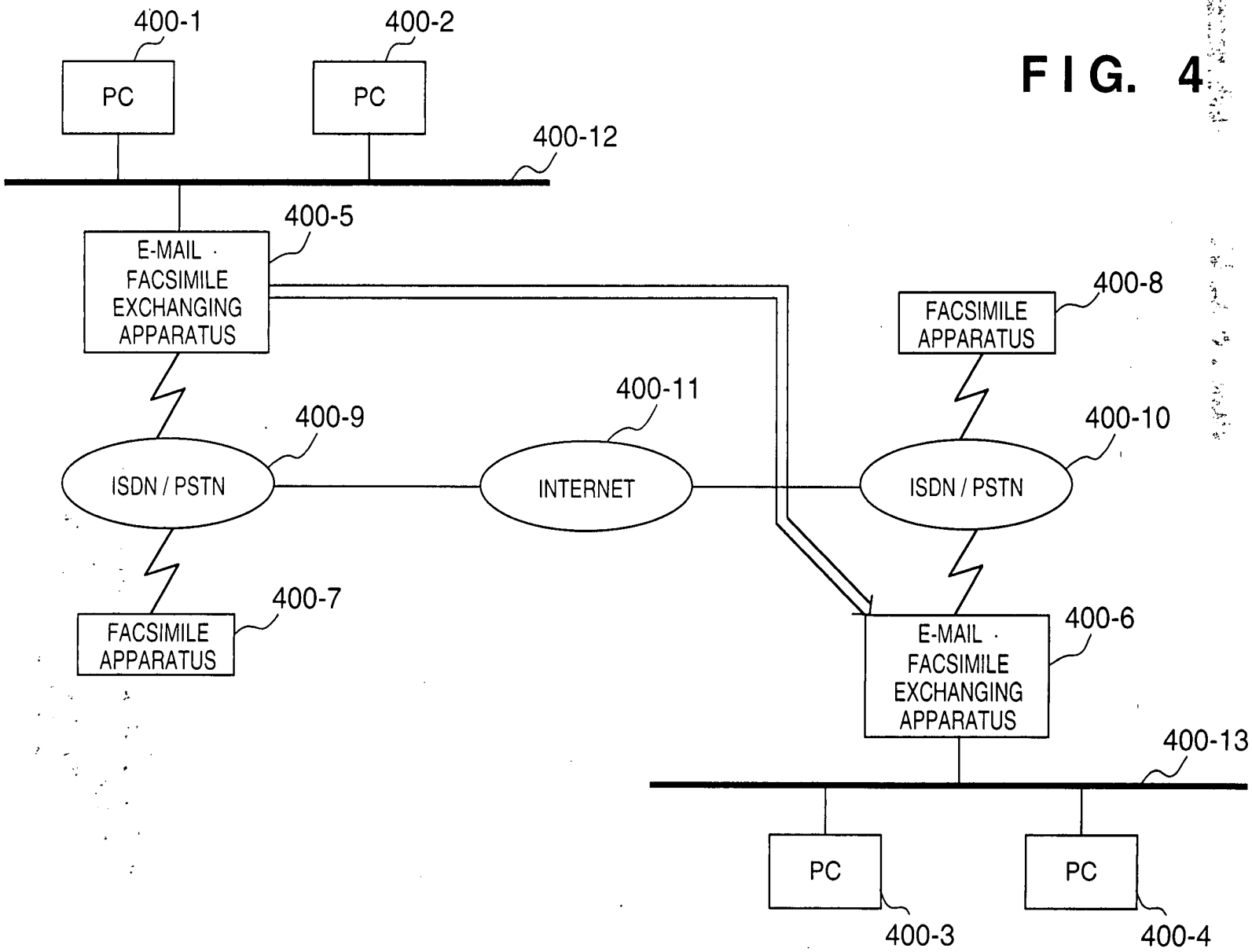
400-1
400-2
PC
PC
400-12
400-5
E-MAIL · FACSIMILE EXCHANGING APPARATUS
400-8
FACSIMILE APPARATUS
400-11
400-9
400-10
ISDN / PSTN
INTERNET
ISDN / PSTN
400-7
FACSIMILE APPARATUS
400-6
E-MAIL · FACSIMILE EXCHANGING APPARATUS
400-13
PC
PC
400-3
400-4

FIG. 5

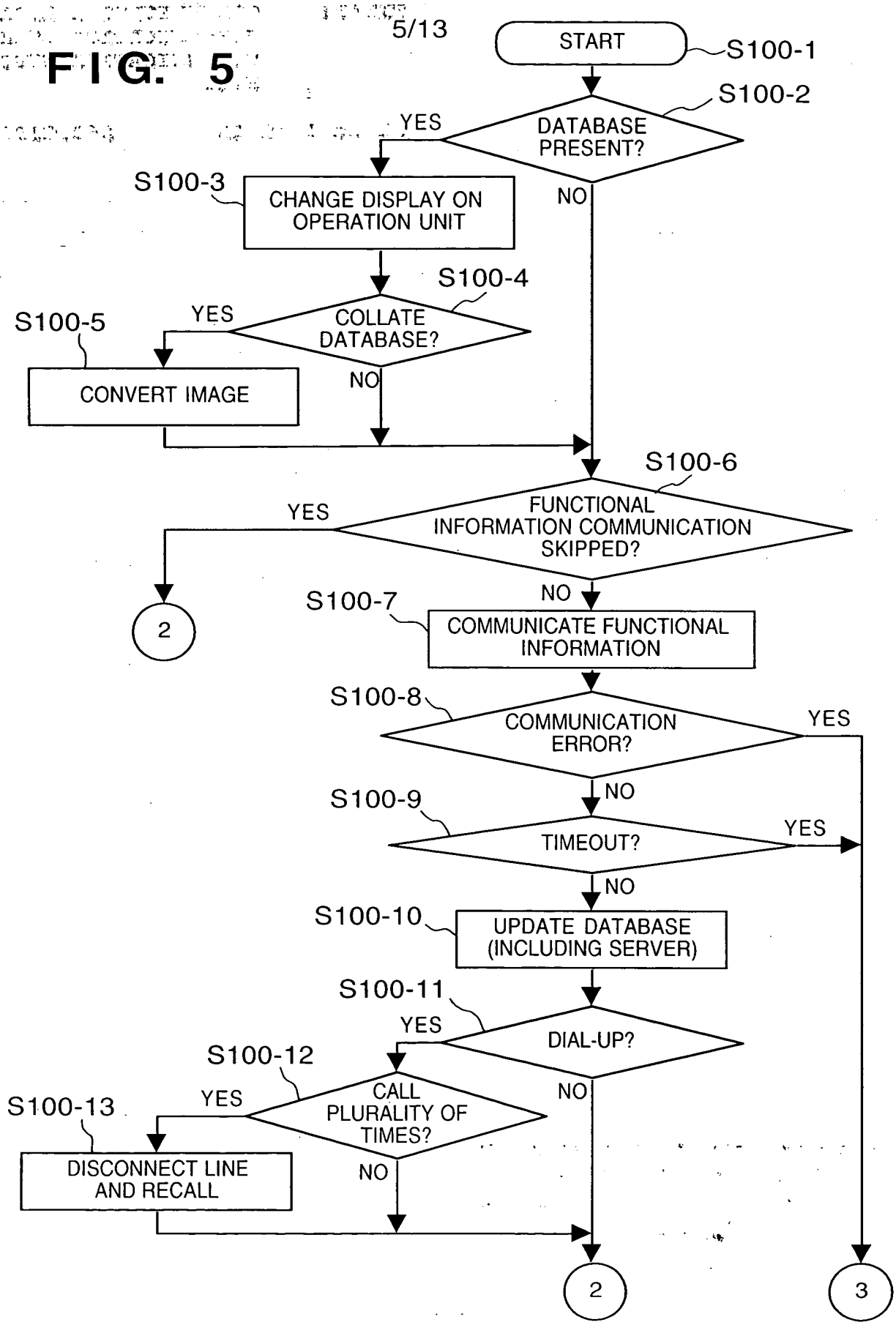
START
S100-1
S100-2
DATABASE PRESENT?
YES
NO
S100-3
CHANGE DISPLAY ON OPERATION UNIT
S100-4
COLLATE DATABASE?
YES
NO
S100-5
CONVERT IMAGE
S100-6
FUNCTIONAL INFORMATION COMMUNICATION SKIPPED?
YES
NO
2
S100-7
COMMUNICATE FUNCTIONAL INFORMATION
S100-8
COMMUNICATION ERROR?
YES
NO
S100-9
TIMEOUT?
YES
NO
S100-10
UPDATE DATABASE (INCLUDING SERVER)
S100-11
DIAL-UP?
YES
NO
S100-12
CALL PLURALITY OF TIMES?
YES
NO
S100-13
DISCONNECT LINE AND RECALL
2
3

FIG. 6

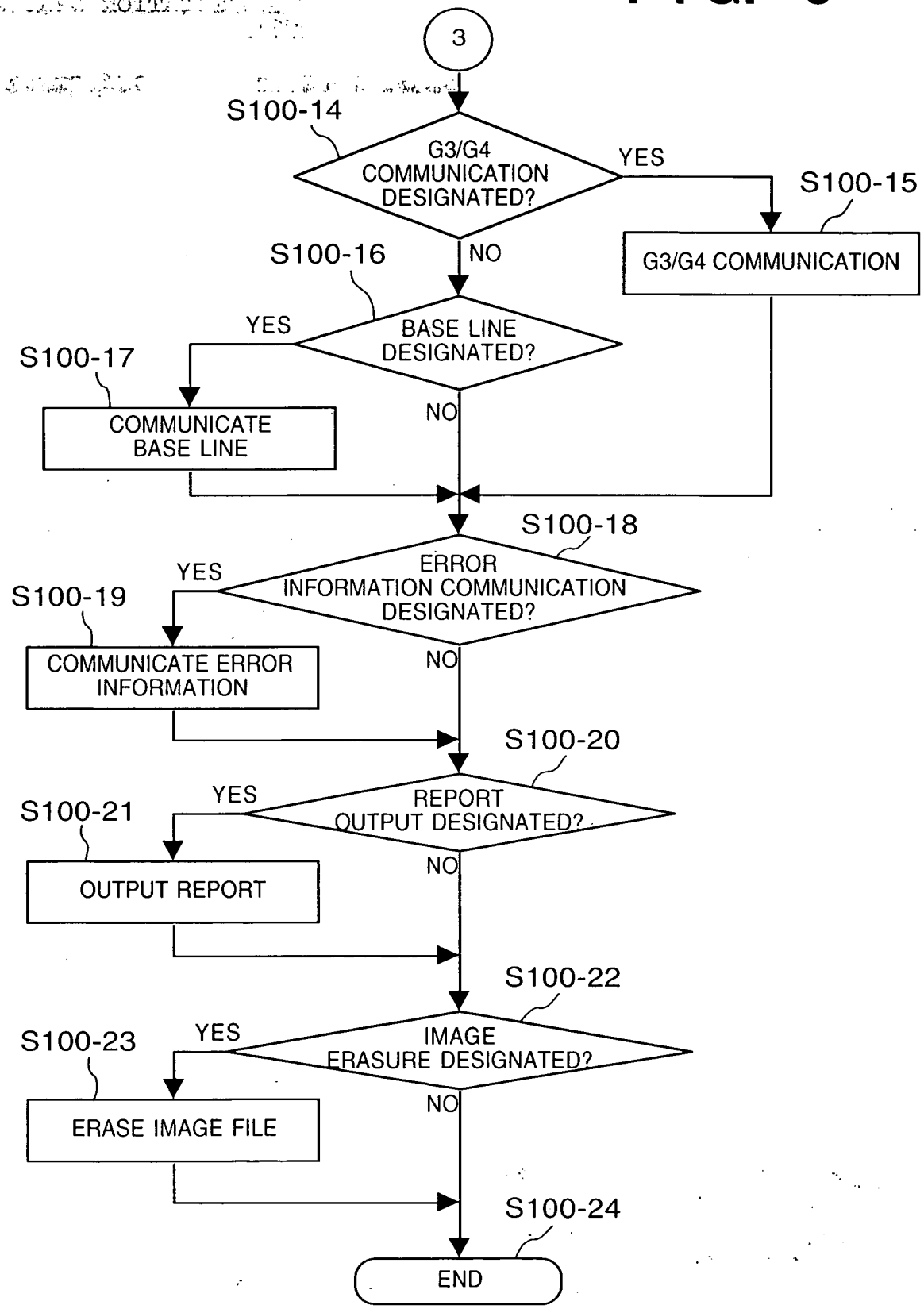
3
S100-14
G3/G4 COMMUNICATION DESIGNATED?
YES
S100-15
G3/G4 COMMUNICATION
NO
S100-16
BASE LINE DESIGNATED?
YES
S100-17
COMMUNICATE BASE LINE
NO
S100-18
ERROR INFORMATION COMMUNICATION DESIGNATED?
YES
S100-19
COMMUNICATE ERROR INFORMATION
NO
S100-20
REPORT OUTPUT DESIGNATED?
YES
S100-21
OUTPUT REPORT
NO
S100-22
IMAGE ERASURE DESIGNATED?
YES
S100-23
ERASE IMAGE FILE
NO
S100-24
END

FIG. 7

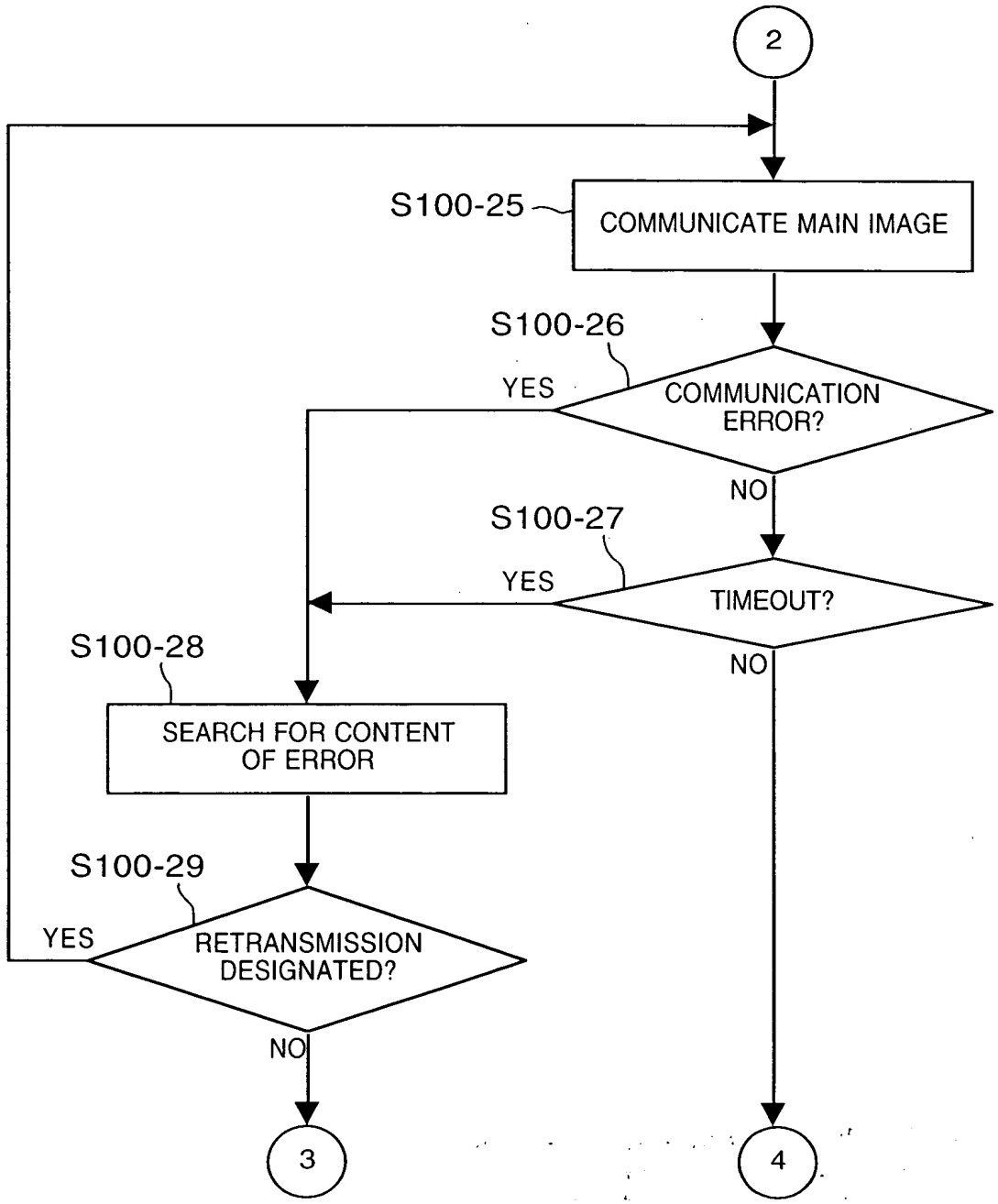
2
S100-25
COMMUNICATE MAIN IMAGE
S100-26
YES
COMMUNICATION ERROR?
NO
S100-27
YES
TIMEOUT?
NO
S100-28
SEARCH FOR CONTENT OF ERROR
S100-29
YES
RETRANSMISSION DESIGNATED?
NO
3
4

FIG. 8

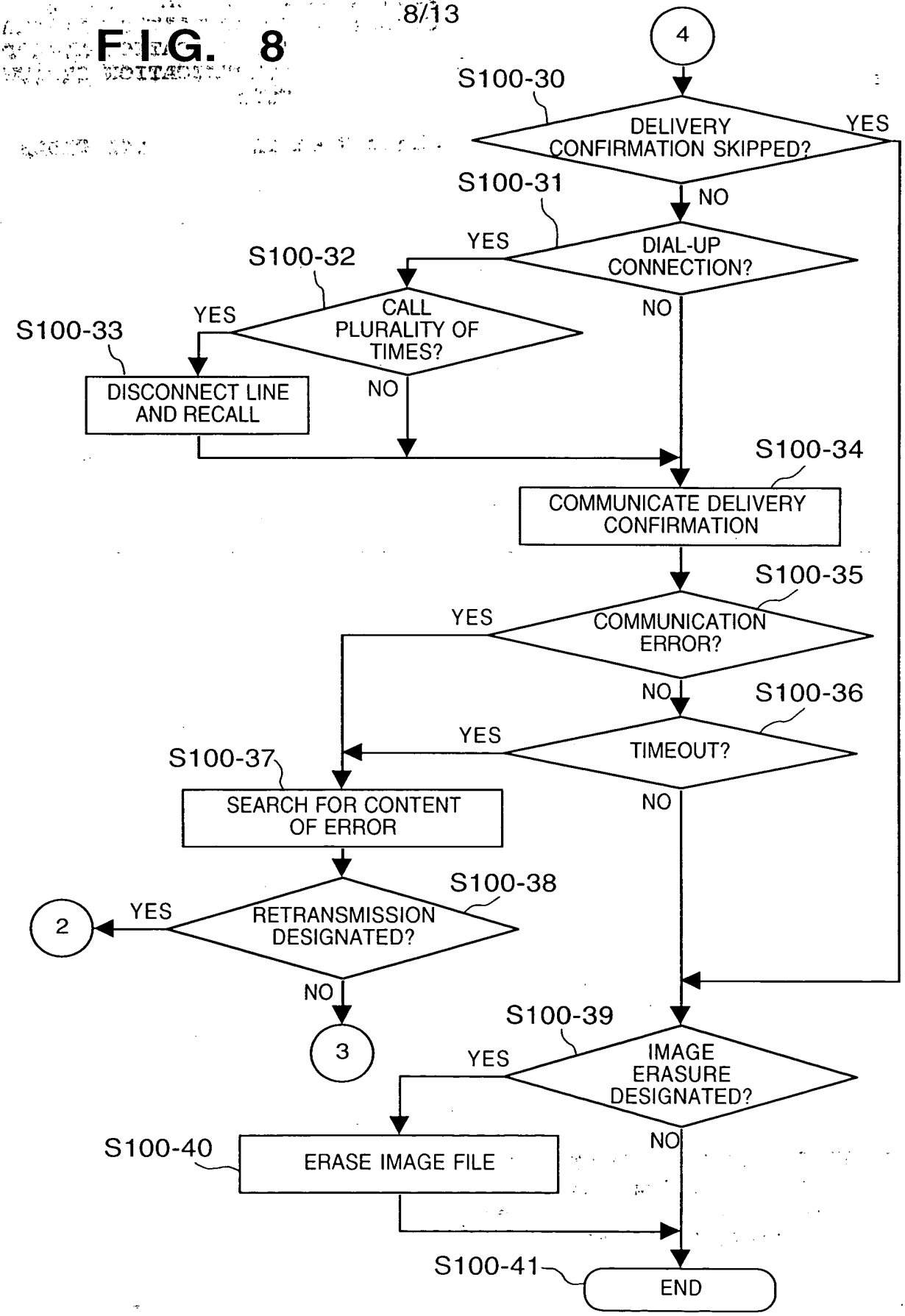
4
S100-30
DELIVERY CONFIRMATION SKIPPED?
YES
NO
S100-31
DIAL-UP CONNECTION?
YES
NO
S100-32
CALL PLURALITY OF TIMES?
YES
NO
S100-33
DISCONNECT LINE AND RECALL
S100-34
COMMUNICATE DELIVERY CONFIRMATION
S100-35
COMMUNICATION ERROR?
YES
NO
S100-36
TIMEOUT?
YES
NO
S100-37
SEARCH FOR CONTENT OF ERROR
S100-38
RETRANSMISSION DESIGNATED?
YES
NO
2
3
S100-39
IMAGE ERASURE DESIGNATED?
YES
NO
S100-40
ERASE IMAGE FILE
S100-41
END

FIG. 9

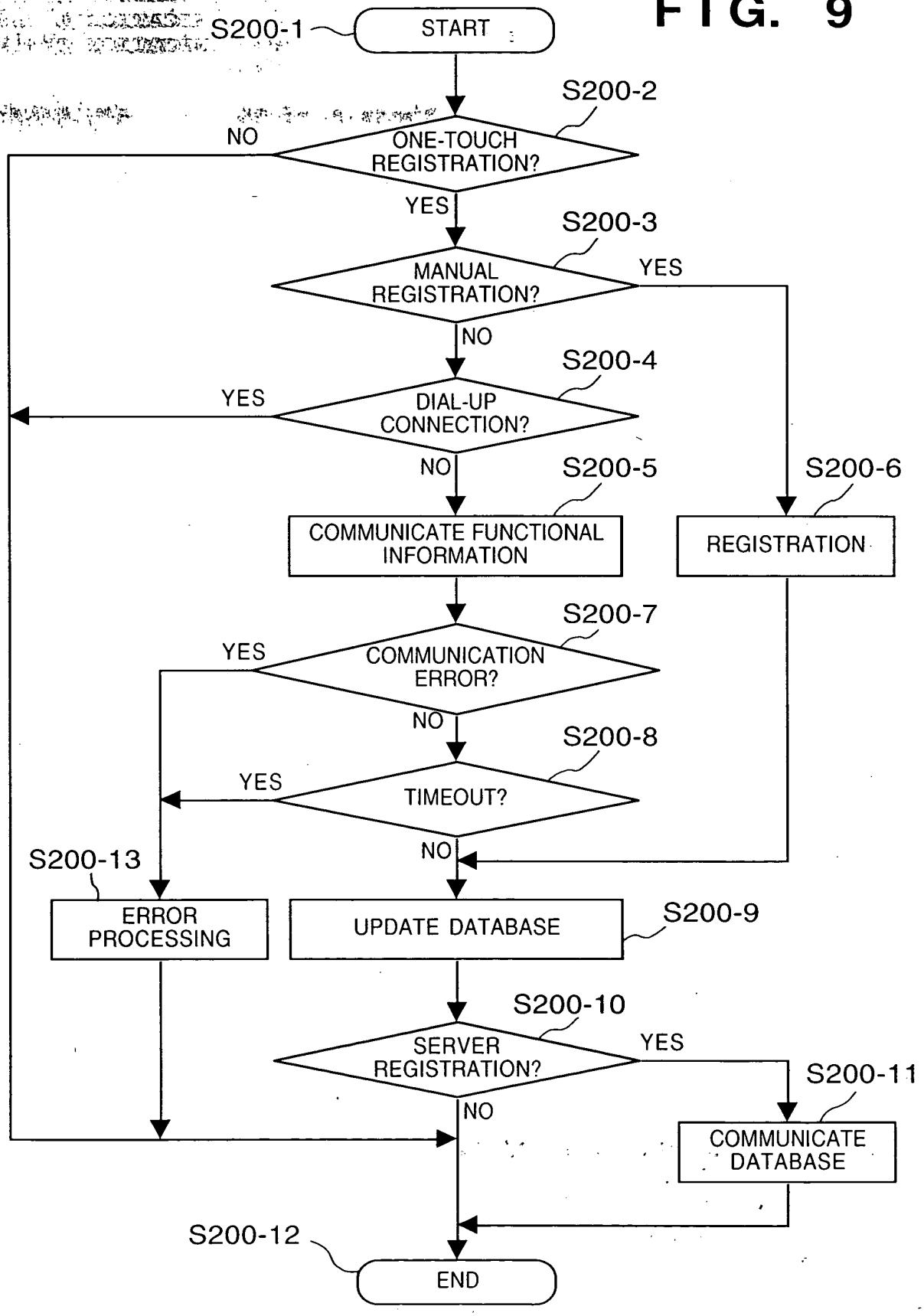
S200-1
START
S200-2
ONE-TOUCH REGISTRATION?
NO
YES
S200-3
MANUAL REGISTRATION?
YES
NO
S200-4
DIAL-UP CONNECTION?
YES
NO
S200-5
COMMUNICATE FUNCTIONAL INFORMATION
S200-6
REGISTRATION
S200-7
COMMUNICATION ERROR?
YES
NO
S200-8
TIMEOUT?
YES
NO
S200-13
ERROR PROCESSING
UPDATE DATABASE
S200-9
S200-10
SERVER REGISTRATION?
YES
NO
S200-11
COMMUNICATE DATABASE
S200-12
END

FIG. 10

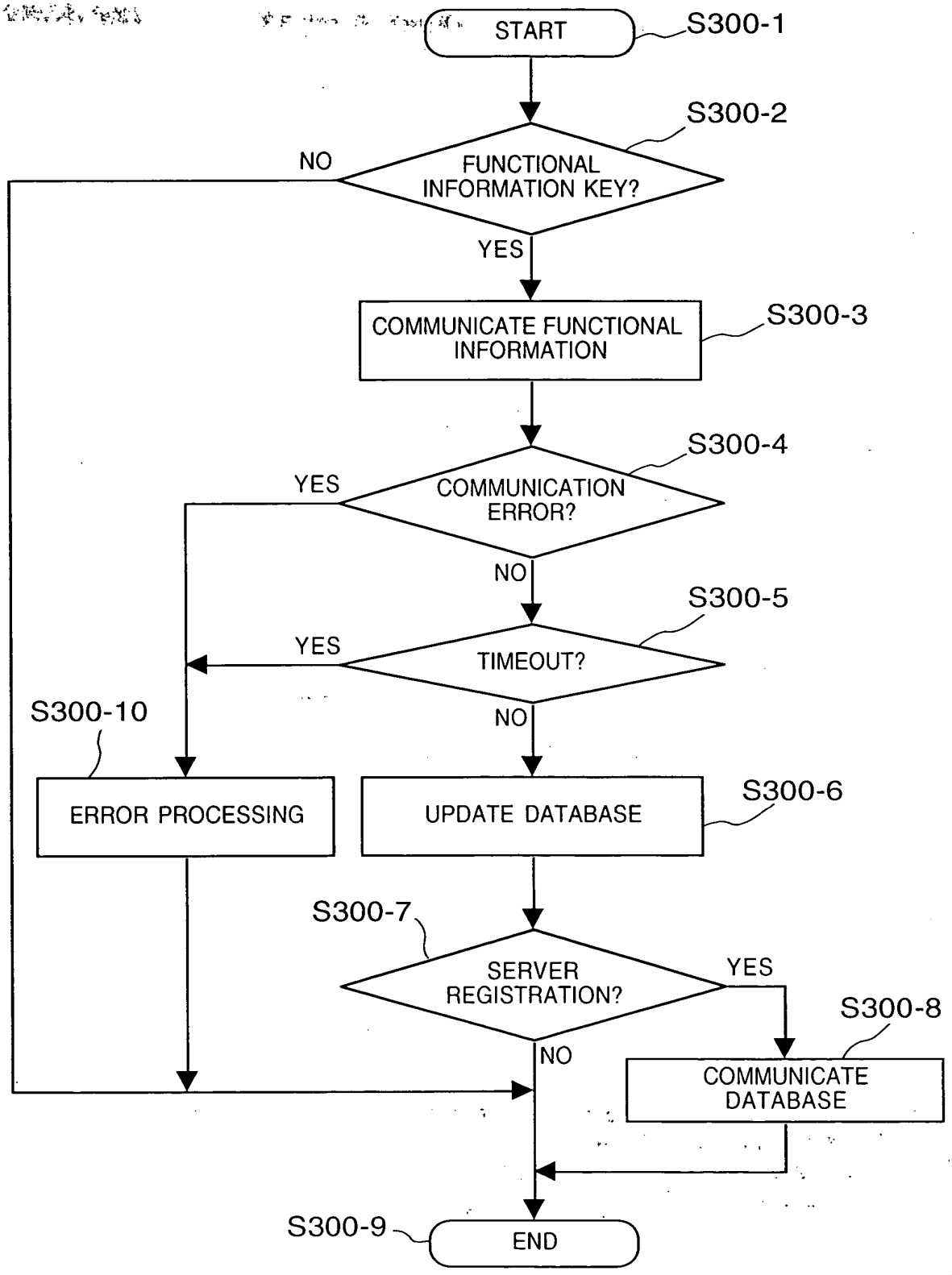
START
S300-1
S300-2
FUNCTIONAL INFORMATION KEY?
NO
YES
COMMUNICATE FUNCTIONAL INFORMATION
S300-3
S300-4
COMMUNICATION ERROR?
YES
NO
S300-5
TIMEOUT?
YES
NO
S300-10
ERROR PROCESSING
UPDATE DATABASE
S300-6
S300-7
SERVER REGISTRATION?
YES
NO
S300-8
COMMUNICATE DATABASE
S300-9
END

FIG. 11

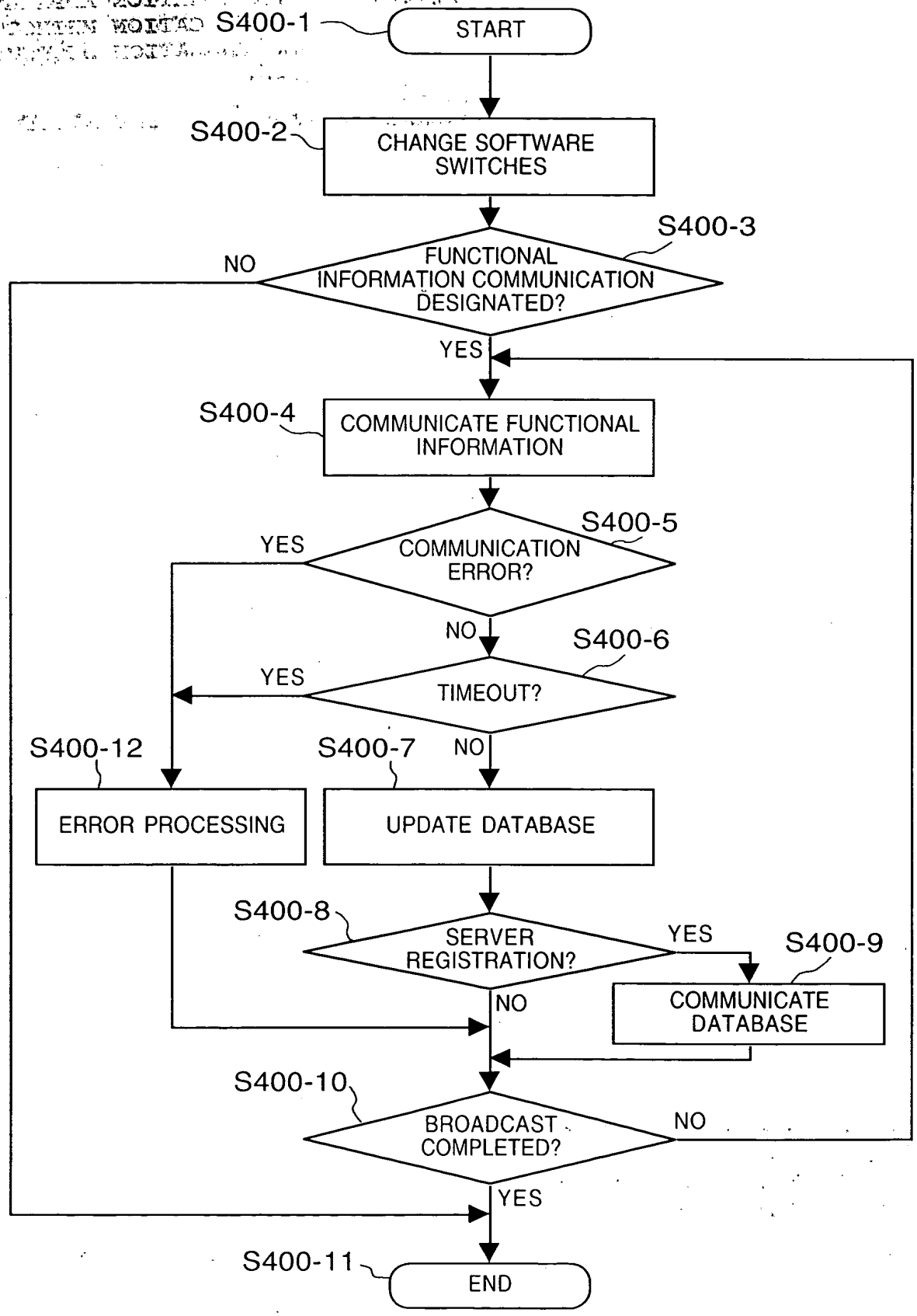
S400-1
START
S400-2
CHANGE SOFTWARE SWITCHES
S400-3
FUNCTIONAL INFORMATION COMMUNICATION DESIGNATED?
NO
YES
S400-4
COMMUNICATE FUNCTIONAL INFORMATION
S400-5
COMMUNICATION ERROR?
YES
NO
S400-6
TIMEOUT?
YES
NO
S400-12
ERROR PROCESSING
S400-7
UPDATE DATABASE
S400-8
SERVER REGISTRATION?
YES
S400-9
COMMUNICATE DATABASE
NO
S400-10
BROADCAST COMPLETED?
NO
YES
S400-11
END

FIG. 12

＊＊＊COMMUNICATION MANAGEMENT REPORT＊＊＊

START TIME	OTHER PARTY	NUMBER	COMMUNICATION MODE	COMMUNICATION RESULT
02/04 17:03	0450000001	0001	TRANSMISSION	OK
02/04 17:20	0440000002	0002	TRANSMISSION	OK
02/04 18:30	0470000001	0003	ECM TRANSMISSION	NG #018
02/04 20:15	0520000001	0004	TRANSMISSION	OK
02/05 1:00	0471000001	5001	TRANSMISSION (TIMER)	NG #021
02/05 2:00	0350000001	5002	AUTOMATIC RECEPTION	OK
02/05 3:05	0300000001	0005	AUTOMATIC RECEPTION	OK

FIG. 13

START TIME	OTHER PARTY	NUMBER	COMMUNICATION MODE	COMMUNICATION RESULT
02/04 17:03	yyy@xxx.xx.xx	0001	MAIL TRANSMISSION	OK
02/04 17:20	zzz@xxx.xx.xx	0002	MAIL TRANSMISSION	BaseLine
02/04 18:30	aaa@yyy.yy.yy	0003	MAIL TRANSMISSION	NG #018
02/04 20:15	bbb@yyy.yy.yy	0004	MAIL TRANSMISSION	OK
02/05 1:00	0471000001	5001	G3 TRANSMISSION (TIMER)	OK
02/05 2:00	0350000001	5002	G3 AUTOMATIC RECEPTION	OK
02/05 3:05	ccc@zzz.zz.zz	0005	RECEPTION	OK
02/07 6:00	0520000001	5004	G3 TRANSMISSION (ECM)	NG #021
02/07 7:05	/ddd@zzz.zz.zz	3012	MAIL TRANSMISSION	OK
02/07 9:00	0300000001	5005	G4 TRANSMISSION	OK
02/07 9:30	0300022222/ eee@zzz.zz.zz	3013	MAIL TRANSMISSION	G3